Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

What is claimed is:

1. (Currently Amended) A method of forming a ZnO nanorod array, which comprises:

coating on a substrate ZnO nanoparticles serving both as a buffer layer and a seed layer; and

growing the ZnO nanoparticles into crystals to form the ZnO nanorod array in a nutrient solution containing nutrients consisting essentially of hexamethylenetetramine, [[and]] at least one nutrient selected from the group consisting of Zn nitrate, Zn acetate, and a derivative thereof, and a solvent,

wherein the substrate consists essentially of Si-wafer or is made of Si, sapphire (Al₂0₃), GaN, ScAlMgO₄, or LiNbO₃, and

wherein the operation of growing the ZnO nanoparticles in the nutrient solution is performed at 90 to 100 °C.

2. (Currently Amended) A method of forming a ZnO nanowall array, which comprises:

coating on a substrate ZnO nanoparticles serving both as a buffer layer and a seed layer; and

growing the ZnO nanoparticles into crystals to form the ZnO nanowall array in a nutrient solution containing nutrients consisting essentially of sodium citrate, [[and]] at least one nutrient selected from the group consisting of Zn acetate and its derivative, and a solvent,

wherein the substrate consists essentially of Si-wafer or is made of \underline{Si} , sapphire (Al₂0₃), GaN, ScAlMgO₄, or LiNbO₃, and

wherein the operation of growing the ZnO nanoparticles in the nutrient solution is performed at 90 to 100°C.

- 3. (Cancelled)
- 4. (Previously Presented) The method of claim 1, wherein a volume ratio of Zn nitrate, Zn acetate, or a derivative thereof, to hexamethylenetetramine in the nutrient solution is 10:1 to 1:10.
- 5. (Previously Presented) The method of claim 2, wherein a volume ratio of Zn acetate or its derivative to sodium citrate in the nutrient solution is 10:1 to 1:10.
 - 6. (Original) A ZnO nanorod array formed by the method of claim 1.
 - 7. (Original) A ZnO nanowall array formed by the method of claim 2.
 - 8. (Cancelled)
 - 9. (Cancelled)
- 10. (Currently Amended) The method of claim 1, wherein the nutrients of the nutrient solution consists of are hexamethylenetetramine, and Zn nitrate and a solvent.
 - 11. (Cancelled)
 - 12. (Cancelled)
- 13. (Currently Amended) The method of claim 2, wherein the nutrients of the nutrient solution consists of are Zn acetate and, sodium citrate and a solvent.